

## UNDER-INFLATED TIRES WILL NOT SAVE YOU MONEY

H. A. Parker of Goodyear Co.  
States Tests Prove Heat  
Does Not Burst Tire

"These are the days when a belief that tires much be run under-inflated in hot weather costs motorists a lot of money," says H. A. Parker, branch manager, the Goodyear Tire & Rubber Company. "It is surprising to find that many men still believe that hot weather expands the air in a pneumatic tire to the bursting point. And there is nothing to the belief worth considering."

"In fact, so far as net results are concerned, the reverse is true. A great many tires are injured and even ruined in hot weather by injuries to which they are made victims through under-inflation."

"The Goodyear Tire and Rubber Company has conducted all manner of tests to determine how much the air in a tire expands because of heat. Tires have been inflated to all manner of pressures. The cars with them an equipment have been run over the

hottest pavements, and sand and dirt roads, at high speeds and slowly. And pressures have been recorded and compared before and after each test. "These tests have proved that no tire—no Goodyear tire at least—is in danger of a blowout because of hot weather expansion of the air when tires are inflated to the recommended pressures. Any motorist can conduct this test for himself, if provided with a pressure gauge such as is included in the Goodyear tire saver kit."

"Inflate your tires to the recommended pressure. Note the pressure on the gauge. Ride one mile or five miles, or any other distance. Stop and apply the pressure gauge and then compare your figures. You will quickly see that the difference is so small that there is no danger of a blowout."

"On the other hand there is danger of blowouts resulting from injuries sustained while running tires under-inflated. It will be well for every motorist interested in low cost per mile to consider the 'hot weather' theory seriously and to refuse to be misled by it."

### TULARE MULES TO HAUL SUGAR IN HAWAII

VISALIA. — Tulare county mules valued at close to \$20,000 will be shipped to Honolulu for work in the sugar plantations. The first consignment of two carloads of this stock left here today for San Francisco, whence they will be shipped to the Hawaiian Sugar Plantation companies. Only the finest stock is being secured and the price ranges around \$200 per head.

## PACKARD MAKES GOOD RECORD IN DESERT TRAVEL

Motor Stage Road From Globe  
to Phoenix Traveled By Big  
Passenger Car

The motor stage road from Phoenix, Ariz., to Globe, same state, via Tempe, Mesa, Fish Creek, Roosevelt Dam and Miami, rises from a few feet above sea level to an altitude of nearly 7,000 feet. The distance from Phoenix to Globe is 135 miles. The temperature at this time of the year averages well over 100 degrees Fahr. in the shade.

Every day, rain or shine—and it's mostly shade—the twin six Packard, owned by H. G. Griswold, ex-soldier of fortune and globe trotter, carrying eight and sometimes nine passengers and their luggage, makes this trip. And if it fails to do the trick in nine hours the passengers get a percentage of their money back—just as on the extra fare railroad train.

William R. McCulla, Packard aircraft motor-engineer, returned recently from a trip through New Mexico and Arizona. He stayed a week in Phoenix and Globe and on the road between these places.

"Griswold's stage car has actually created a sensation in Arizona," said he. "Passengers have changed our slogan to suit their own experiences and their way of talking to 'Ask the Man Who Rode Ose,' and the phrase used by a traveling salesman, 'The Desert Pullman,' also has stuck."

"The line is licensed by the state as a common carrier and is regulated under the state laws. Its record for six weeks is 4,000 miles and the car's tires are holding up exactly twice as long as tires on other cars used in stage service that have the same size wheels as the Packard. Griswold is planning to have a new twin six made with a special stage body, so that he can carry four more passengers than he now does. He is confident that the car will easily handle the additional load."

McCulla's trip through the Southwest was for the purpose of research and investigation from both engineering and sales standpoints. He also stopped at New Orleans. He said that Louisiana is doing some splendid road work and that work has been started on a wonderful highway along the coast of the Gulf of Mexico.

## MOTOR TRUCK IS BOON TO FARMER

The fruit market, gardener and dairyman can market 50 miles away from home by using a motor truck as easily as eight miles with horses," says a well known truck maker.

"This fact is an excellent illustration of what a truck will do, not only for farmers, but other classes as well. With horses these farmers were confined to a limited territory in disposing of their products. Using trucks gives them a wider area of operation, more competitive buying and hence better prices."

"And with merchants it is equally plain that trucks enrich business by extending the delivery area. The retail businessman with a truck may choose his customers from many more people than formerly, because he can profitably reach a family at least four times further away than his most remote patrons of the horse haulage days."

"With good roads constantly extending, manufacturers, jobbers, supply men and others are substituting motor haulage for the railroad on short cross-country hauls."

"I have given but a few reasons why motor truck manufacture is so prosperous. People have learned that trucks make money by actually getting new trade, as well as save money through superior dependability."

## SIMPLE TEST FOR GASO-TONIC

"We are constantly asked," says W. A. Anderson, manager of the Acetylene Light & Agency Co., "if gaso-tonic contains acid. Practically all the common carbon removers do contain acid as the active agent in the removal of carbon deposits from cylinders and valves. Picric acid is the most commonly known in this connection. Its presence is readily detected by opening the carburetor and observing a green coating or crust on the inner surfaces. Naturally this is apt to cause injury to other parts of the engine."

"A simple and infallible method of detecting the presence of acid is the well known litmus paper test. It is quite commonly known that blue litmus paper turns red in the presence of acid, and red litmus paper turns blue in the presence of alkalis. Five cents worth of litmus paper can be purchased from any drug store and the test applied by anybody. If there is the slightest trace of acid the blue litmus will turn red. We have applied this test repeatedly to gaso-tonic and found it absolutely neutral, showing neither acid nor alkaline reaction."

"It removes carbon deposits merely by softening the deposits and giving complete combustion of the fuel. The complete combustion burns away the softened carbon and leaves the

cylinders clean. Because it works in this natural way, its action is slower than that of the acid carbon removers, but being the natural way, it without injury to the engine or any of its parts. If the cylinders are very dirty it may require the use of 30 or 40 gallons of gasoline treated with gaso-tonic to get them thoroughly clean, and until they are thoroughly cleaned the maximum mileage will not be obtained from the fuel. There is a constant improvement, however, from the start until the maximum is reached, which in some cases may take five or six weeks, according to the amount of use given the car.

## AUTOMOBILE CLUB WILL HOLD LUNCHEON AT YOUNG HOTEL

Members of the Honolulu Automobile Club will hold a luncheon at the Alexander Young hotel on Friday, August 18, at 12 o'clock. All members have been asked to be present, and to bring their friends. It is expected that there will be a large number present, and a number of interesting points will be taken up at this meeting.

It is expected that the Honolulu Automobile Club will become more active in its organization, and the leaders in the movement are anxious to have as many present as possible at the luncheon. The local organization has been one that has always been to the fore in promoting the things for the best interests of the community, and the coming luncheon is expected to bring out a banner crowd. Mark it down in your little book now. The date is August 18.

## SPRINGS WOULD LAST FOR MORE THAN 60 YEARS

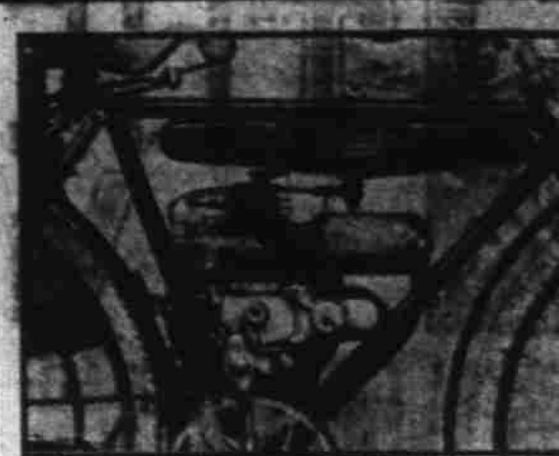
Tests at Dodge Brothers Plant  
Brings Out This Interesting  
Fact to the Public

There is little left to chance in the making of motor cars these days. Every part and every bit of material that goes into the well made cars is so thoroughly tested before use that their future can be written out in advance.

To accomplish these tests, however, many wonderful machines have been developed. One of the most interesting in the laboratory of Dodge Brothers is a device which for 24 hours each day tests springs. The principle is extremely simple, although in practice, to ascertain results, it is complicated in its workings.

The center of the spring is held stationary while rapidly moving arms vibrate the ends, exerting the same force that the spring would be called on to combat on an exceedingly rough road.

It tests not only for strength, elasticity and other qualities, but also makes certain that the measurements are absolutely correct. The overload pressure is applied at the extreme rate of 155 vibrations a minute, until the spring has absorbed more shocks than it would be called upon to survive in long years of actual service. With a conservative number of miles per year as a basis it has been shown that some of the springs subjected to this test would last the average automobile driver 60 years. Grease is placed between the spring



## Cyclemotor

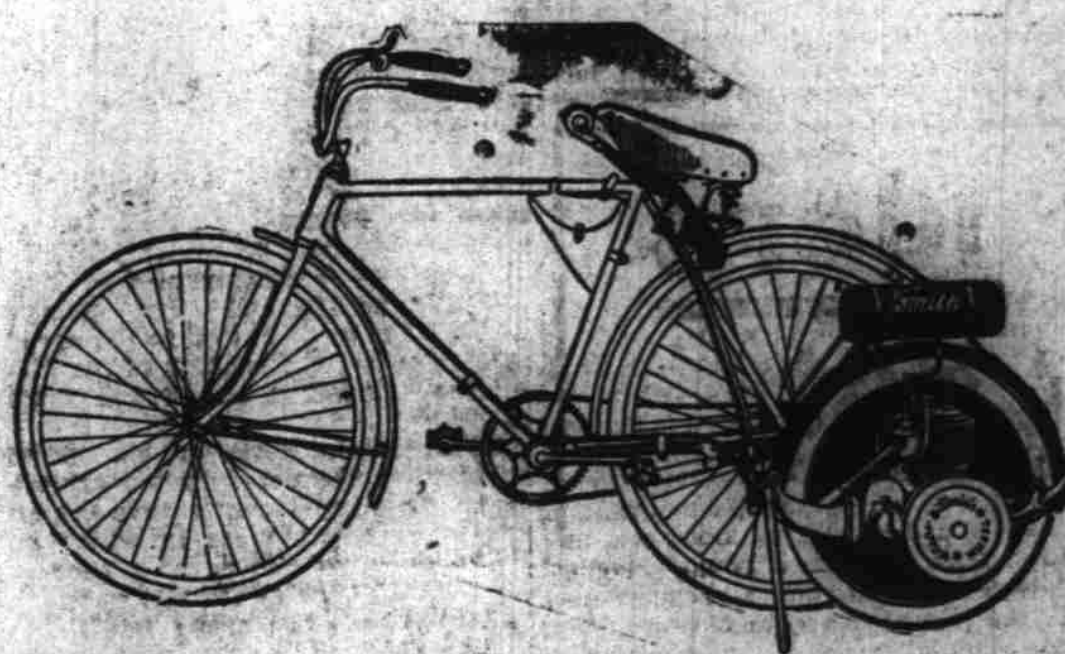
Converts your Bicycle into a Motorcycle

MOTOR	1 H. P., two-stroke, single cylinder, air cooled.
IGNITION	"National" high-tension, water-proof magneto. No batteries required.
CONTROL	Single lever on handlebar.
DRIVE	Round, twister-leather belt on single-piece rim on rear wheel.
WEIGHT	Twenty-one pounds net.
SPEED	From four to twenty-four miles per hour.

**\$65.00—Attached to any Bicycle**

Agent **T. EKI** Honolulu  
Corner So. King and Alapai

leaves and tested to determine its value of the lubricant, for wherever there is friction there is heat and a measure of heat is a measure of the course, a means of determining the friction.



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Around the island and further for  
**22 cents**

Complete with Iver-Johnson  
Truss Frame Bicycle

**\$110.00 Time \$100.00 Cash**

**Schuman Carriage Co., Ltd.**

Corner Alakea and Merchant Streets

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## FEDERAL TIRES

Don't buy tires on hearsay. Make  
salesmen prove to you that the right  
tire is the safe tire. For there's plenty  
of risk in motoring without buying  
weak tires. If you've never used

## FEDERAL TIRES

Double-Cable-Base

try them now. Look into extra  
wearing quality, and double-  
cable-base feature. Federal  
Tires stand alone for strength, se-  
curity, satisfaction. Guaranteed.

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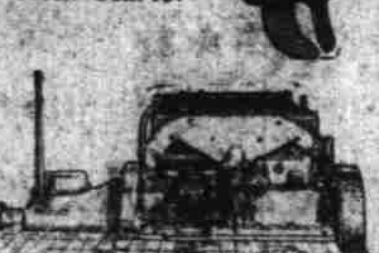
"Nothing Counts Like  
Service"

## Gas Engines For All Purposes

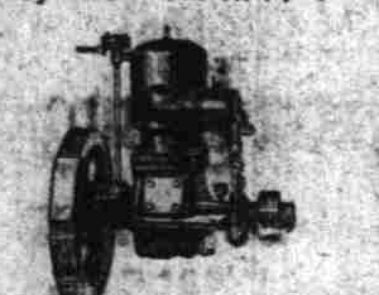
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4 cylinder designs. 2  
to 30 H. P. Standard  
and heavy duty types.

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logues, state type of en-  
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